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# INFORMATION REPORT INFORMATION REPORT

### CENTRAL INTELLIGENCE AGENCY

		S-E-C- <b>R-E-</b> T		PRU	CESSING	25X1
COUNTRY	Poland	RI	PORT			
SUBJECT	The Precision Instrumen	ts Factory D	ATE DISTR.	April	8, 1957.	
	in Swianica	` -	O. PAGES	6		
			EQUIREMENT IO.	RD		
DATE OF		R	EFERENCES			
NFO.						25 <b>X</b> 1
PLACE & DATE ACQ.	SOURCE EVALUATIONS ARE	DEFINITIVE. APPRAISA	L OF CONTENT	IS TENTATIV	/E.	——25X1 ——
	Under German rule the en electric consumption met	Cerpinse was allow		ent and m	aterials '	25 <b>X</b> 1
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	subsequently found at the include telephone exchanthe course of the Second After the Poles took over instituted. The enterpression was adopted. During the of the previous products had been taken over. Procommunication apparatus Factory  In approximately 1948, began using locally-made automatic locks (automatwo previously produced the entire output until was established under to Construction Bureau "D" components and of the meaning of the meaning of the meaning of the meaning of the second of the meaning of the meaning of the second of the	ges and military leges was called the leges was called the leges and military leges was called the leges was continued, leges was called the leges was	on was appar communication  45, consider  the State Caller the transplant of the transplant of the transplant of the Communication  were exhaust a started, which communicate the transplant of the Communicate the Communicate the Communicate the Communicate the Communicate the transplant of the Communicate the transplant of the Communicate the Commun	rable chan culator Fa ent design fer of own iderable ages and mi ations Instited, and the manuach togethed gauges) all constructions in the manuach togethed gauges) all constructions in as well as the stame	us during  uges were actory nation mership, ma stock of ma litary struments akow.  the plant facture of er with the represente ction offic "D" = ts of certe as technic	nufacture terials 25X1 25X1 eddee

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			<b>-</b> 2-		
			L		
١.	Whi:	le a team of experts wa	s engaged in translating t	he aforementioned	
	met	erial into Polish, expan	nsion of the plant was und	ertaken. One of	0EV4
		departments was removed "special products"	d from the premises, and a	_new_department with its own	25 <b>X</b> 1
	man	agers and foremen, was	established and subsequent		n
	of a	a series of aircraft ga	uges. Listed in the chron	ological order in	
	whi	ch they were turned out	by the factory, these ite	ms included the follow	owing:
•	a.	An instrument, judged an oil pressure gauge;	by all technical indicatio	n, constituting	
	<b>b</b> •	A manometer, apparentl	y for measuring air pressu	reş	
	c.	A thermometer with a s	cale from -60 degrees C. t	o 70 degrees C.;	
	d.	An artificial horizon			25 <b>X</b> 1
	e.	The fifth and sixth it	ems of the series were sig apparently indicato	nal apparatus	
		lights for aircraft in		rs and warning	25 <b>X</b> 1
	Unt	il late 1953, the afore	mentioned constituted the s destined for the MIG-15	entire military and other types	25 <b>X</b> 1
	of	aircraft. In the begin	ning of the same years civ	ilian production of	
	the	plant was extended to	wattmeters	•	25X1
5.	Tow	ards the end of 1953, t	he plant employed some 1.5	00 men working in tw	o shifts.
-	It ·	was then divided into a	number of departments	and subdepar	
	_Δ	comprised the following	ch the following details a	re reported:	20/(1
	-20				
	8.	No. 1 Mechanical subde	partment This section carried out	mechanical processi	25X1
		of metal parts, and wa	s equipped with some 40 pu	nch presses and	
		pneumatic hammers of G	erman and Czech make rangi	ng from 1 to 100 ton	. <sup>s</sup> ; 25X1
		and five spot welding			
	ъ/	No. 2 Mechanical subde	partment, whose equipment	included: approxima	tely
		20 medium-sized automa	tic lathes, principally fo ducts of the Soviet Lening	r small work pieces, rad plant, while oth	25X1 ers
		were of make (I	index and Petermann); close	to 25 German vetica	ı
		drilling machines; fou cutting, planing and p	r or five German turret la	thes; various screw-	25 <b>X</b> 1
					23/1
	c.	Galvanizing and anodiz	ing subdepartment (Oddzial	. Galwanizerni i	end o
		of aluminum parts, and	rries out chrome and nicke rust-proofing chemical tr	eatment. Its equipm	ent
		includes: some 100 ga	dvanizing vats (wanny galw	manizacyjne) and eigh	ıt,
		similar receptacles ca	lled galvenizing goblets ( ing machines (bzlifierki i	kielichy galwaniczne	: ) • . \ •
		five twin-polishing dr	ums (bebny polerskie) and	three simple polishi	ng
			y heated and 10 gas-heated	drying installation	ıs
		(suszarki).			
	d.	Varnishing subdepartme	nt (Oddzial Lakierni), wit	h the following equi	.pment:
		seven single varnishin	ig stands (stanowiska lakie one mobile gas-heated dryin	ernicze pojedyncze); og installation: thre	one e 'o
		electrically heated two one gas-heated degrees	in drying installations; o	one infrared drying s	stand;
		-	S-E-C-R-E-T		
					25 <b>X</b> 1

. 6.

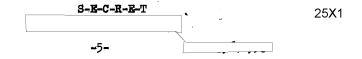
7.

8.

9.

,	S=	R-C-R-R-T		
	·	<b>-3-</b>	1	25 <b>X</b> 1
				20/(1
е.	Subdepartment for first-assembly with; one punch press; one sutoma machine; four or five drilling machine		equipped one planing	25 <b>X</b> 1
wit	department is concerned with mili- h the exception of the first-assem lusively with civilian articles.			
Wyd	zial - B comprised the following:			
8.	Bakelite subdepartment (Oddzial B components and is equipped with 1 them hydraulic, of up to 120 tons from the Czech Skoda factory; 20 brushes.	8 to 20 bakeli , three of Ger	te presses, most of man make and the of	r thers
b.	Coil-winding subdepartment (Oddzia machinery: four with diameters from 0.08 to 0.2 m of German manufacture; four coil	automatic coil m.; five semi-	winders for wires automatic coil wind	
	from 2 to 4 mm.			25 <b>X</b> 1
c.	Assembly subdepartment without the aid of mechanical equ		work is carried on	
_			i	25 <b>X</b> 1
d.		ase meters and	l two boards for	e 25 <b>X</b> 1
	three-phase meters; two high tens	ion insulation	testers.	
e.	Packing subdepartment	•		25 <b>X</b> 1
Thi	s department is not concerned with	the manufactu	re of military prod	lucts.
Wyd pro	zial - III, the heat processing deducts, had the following mechanica	partment for m l equipment;	dilitary and civilia	an
a.	Kight small and medium-sized elec	tric annealing	; furnaces;	
<b>b</b> •	Two small gas annealing furnaces;			
ċ.				
	Two large gas annealing furnaces;			
đ.	Two large gas annealing furnaces; One metal punch press;			
				25 <b>X</b> 1
d. e.	One metal punch press;	g shop	•	25X1
d. e. Thi Wyd. gau	One metal punch press; One varnishing stand.	bly department mechanical eq	uipment of this	25X1 25X1
d. e. Thi Wyd gau sho	One metal punch press; One varnishing stand. s department included a magnetizing zial IV, the calibration and assem ges and automatic locks. The only	bly department mechanical ec es and test bo	uipment of this ards.	25X1
d. e. Thi Wyd gau sho	One metal punch press; One varnishing stand.  s department included a magnetizing gial IV, the calibration and assem ges and automatic locks. The only p consisted of a few miniature lather gial V, the special department for	bly department mechanical ec es and test bo military prod ent g a greater de ns of the plan	uipment of this eards.  ucts, of comprise egree of accuracy that. Its equipment	25X1
d. e. Thi Wyd gau sho Wyd fol	One metal punch press; One varnishing stand.  s department included a magnetizing ges and automatic locks. The only p consisted of a few ministurelation and assemble to the consisted of a few ministurelation guide partments.  Precision instruments' subdepartment which produced apparatus requiring could be achieved in other section included one punch press; one variations.	bly department mechanical eques and test bo military product ent g a greater dens of the plan nishing stand;	uipment of this eards.  ucts, of comprise egree of accuracy that. Its equipment	25X1

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٠			25 <b>X</b> 1
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		-4-	
			25 <b>X</b> 1
	b•	Assembly subdepartment whose sole mechanical equipments were three coil winding machines.	20/(1
	c.	Testing Section , for the final examination of all military products.	25X1
د	The	e personnel of Wydzial V totalled 80 to 100 workers.	
10.	pro	e total staff of the departments, which were directly concerned with duction, numbered about 1,000 workers. In addition to the adminis- ctions which differed in no way from the known structure of similar lish enterprises, the plant comprised in addition the following:	rative 25X1
	8.	The Machine Tool Shop , for the manufacture of too and jigs required at the factory. This shop was comparatively laremploying some 130 workers, and was equipped with the following multiple to 15 lathes; six to eight planing machines; four to five polimachines; a high precision "SIP" drill of Western manufacture; a roof regular drilling machines; sawing machines; hand-operated punctand other similar equipment.	rge, achinery: shing number
	b.	Chief Mechanic's department for the result maintenance of mechanical equipment. This shop employed some 80 workers, and comprised the following machinery: four lathes; number of planing and drilling machines; and various welding sets	25 <b>X</b> 1
	c.	Large raw material stores, which were equipped with three metal smachines and three sheet-metal cutters.	awing
	d.	Finished products' stores;	
	e.	Garage and repairshop for the following plant vehicles: two buse for transporting the staff; five trucks; one pick-up truck; two transporting trucks car.	s ractors;
11.	Amo	ong other important sections of the plant were the following:	
	a.	Chief technologist's department, with a staff of some 30 engineer and technicians, and composed of sections for blueprint and technic specifications; material analysis; and design of auxiliary equipments.	Lcal
	ъ.	Chief designer's office, with an experimental laboratory and a st of close to 25 workers.	aff
	c.	Technical control, which carried out examination of components and finished products, and comprised chemical and electrical laborator	l ries.
	The	three technical sections worked for all departments of the enterp	rise.
12.		th regard to the military products of the enterprise the following e reported:	specifications
	8.	Manometers. These instruments have the shape of a cylinder appro- 120 mm. long and some 80 mm. in diameter. The housing is made of aluminum, chemically treated with black paint, varnished, and dri The face of the manometer is identical in material and processing the housing, and protected by glass. The figures are engraved an coated with a fluorescent material (radium), and the indicators m anodized aluminum in its natural color, also with a fluorescent c The remaining components are made of brass, copper, steel, alumin various alloys, all of which are galvanized or chemically treated  S-E-C-R-E-T	anodized ed. with d sde of cating. um, and
			**1



- b. Thermometers. The plant manufactured only the housing, while the working components were imported from the USSR. The housing is nickel-plated steel, with an overall length of 150 mm.; one end bears a screw thread and union; the distance between the lower edge of the latter and the other end of the housing is 132 140 mm.
- a length of approximately 100 mm. and a diameter of some 80 mm.

  The housing is made of anodized aluminum coated with a chromium compound.

  On the glass-protected face of the instrument appears the silhouette color of a ministure sirplente. Only one production series of the instrument was turned out by the plant, and towards the enderly 1953, its manufacture was assigned to the A-6 works in Warsaw.
- d. Warning Indicators. Housed in a box of galvanized sheet-steel, approximately 35 mm. by 130 mm. by 180 mm. in size.
- 13. The plant did not completely master the production technique of the military products until the end of 1953, particularly with regard to accuracy. Discounting rejects, the monthly output did not exceed 60-80 instruments of each type, all of which were shipped to aircraft factories at the following locations: the Psie Pole quarter of Wroclaw (Breslau); Mielec near Rzeszow (N 50-03/K 22-00), and Swidnik (N 51-15/K 22-41) near Lyblin.
- 14. With regard to civilian products, the monthly output during 1953, amounted to the following:
  - a. Electric consumption meters (one-phase): -25,000- 27,000.
  - b. Electric consumption meters (three-phase ): 2,800 3,500.
  - c. Electric gauges:- 400 600.
  - d. Automatic locks: 300 500.
- 15. The following personalities of the Precision Instruments' Factory in Swidnica are known;

olodziejczyk, (fnu)	
	has been the chief technologist
umela (fnu),	
lodzimierz Manowski. ha	s been the production manager since 1952:
<del>.</del>	
	S-E-C-R-E-T 25X1

• •	S-E-C-R-E-T	25X1
	-6-	25 <b>X</b> 1
e.	Bogdan Micinski, has headed the technical control department for several years.	25X1
f.	Romuald Schmidt, about 50, chief mechanic since 1951-1952.	25)
g.	Tadeusz Slowczynski, has been chief engineer for a number of years. An electrical engineer.	25X
h.	Borys Weiser, has headed the investment department since 19	
i.	Mieczyslaw Wojciechowski, has been the production manager of the Military department since 1954.	25X1 25X1
<b>j.</b>	Waclaw Wyszynski, was director of the plant from 1952 until	25X1 . <b>1955</b> ,
the	rough sketches of the three floors of plant, with a list of the offices and departments located on them.	25X1
		25 <b>X</b> 1
	S-E-C-R-E-T	25X1

25X1

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# Regend to Sketch "A" - General Location and Ground Floer of the Plant

- A. Offices and canteen
- B. Production and auxiliary departments

25X1

- I. Lukasinskiego Street
- II. Gdynska Street
- III. Residential houses
  - 1. Buffet
  - 2. Gatekeeper's lodge and guard room
  - 3. Warehouses
  - 4. Chief mechanic's department
  - 5. Locksmith's shop
  - 6. Heat processing department
  - 7. Tool making department (Narsedsiewnia)
  - 8. No. 2 Mechanical Department
- 9. No. 1 Mechanical Department
- 10. Galvanizing department
- 11. Garage
- 12. Bakelite department

SECRET

25X1

-16-

#### Legend to Sketch "B" - First Floor of the Flant

- 1. Special Products Department
- 2. Varnishing Department
- 3. First Assembly Department
- 4. Coil-winding Department
- 5. Electrical workshop
- 6. Gauge assembly shop
- 7. Chemical laboratory

#### Legend to Sketch "C" - Second Floor of the Plant

- 1. Chief Mechanis's Department
- 2. Chief Technologist's Department
- 3. Consumption meter assembly shop
- 4. Consumption meter calibration shop and dectrical laboratory
- 5. Packing department



